

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.: MO-0000817

Owner: River Cement Company
Address: 1000 River Cement Road, Festus, MO 63028

Continuing Authority: Same as above
Address: Same as above

Facility Name: River Cement Company
Address: 1000 Doolin Hollow Road, Festus, MO 63028

Legal Description: NE ¼, NE ¼, Sec. 26, T40N, R6E, Jefferson County

Receiving Stream & Basin: Mississippi River (P)
First Classified Stream and ID: Mississippi River (P)(01707)
USGS Basin & Sub-watershed No.: (07140101-230001)

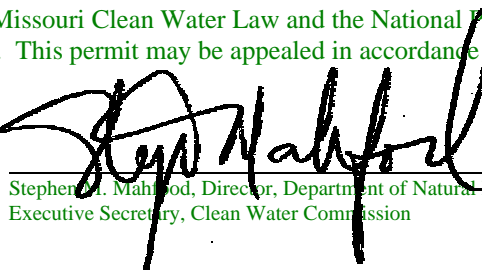
is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

See page 2

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

February 20, 2004
Effective Date


Stephen A. Mahood, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

February 19, 2009
Expiration Date
MO 780-0041 (10-93)

Mohamad Alhalabi, P.E., Director, St. Louis Regional Office

FACILITY DESCRIPTION (continued)

Outfall #001 - Fertilizer Manufacturer - SIC #2873

Outfall inactive. Plant decommissioned. No process flow. (Stormwater runoff from this location monitored through Outfall #008)

Outfall #002 - Fertilizer Manufacturer - SIC #2873

Outfall inactive. Plant decommissioned. No process flow. (Stormwater runoff from this location monitored through Outfall #009)

Outfall #003 - Fertilizer Manufacturer - SIC #2873

Outfall inactive. Plant decommissioned. No process flow.

Outfall #004 - Fertilizer Manufacturer - SIC #2873

(Former Low Density Ammonium Nitrate Plant (LDAN) and High Density Ammonium Nitrate Plant (HDAN))

Outfall Inactive. Plant decommissioned. No process flow.

(Storm water runoff from this location monitored through Outfall #015)

Outfall #005 - Inactive

Outfall #006 - Fertilizer Manufacturer - SIC #2873

Outfall inactive. Plant decommissioned. No process flow. (Stormwater runoff from this location monitored through Outfall #013)

Outfall #007 - Fertilizer Manufacturer - SIC #2873

Storm water runoff from railcar - Abandoned warehouse area.

Outfall #008 - Fertilizer Manufacturer - SIC #2873

Storm water runoff from former nitrate (HDAN and LDAN) production area.

Outfall #009 - Fertilizer Manufacturer - SIC #2873

Storm water runoff from demolished acid plant area.

Outfall #010 - Fertilizer Manufacturer - SIC #2873

Storm water runoff from above former nitrate plants and above west surge.

Outfall #011 - Fertilizer Manufacturer - SIC #2873

Storm water runoff from former UAN tank farm area.

Outfall #012 - Fertilizer Manufacturer - SIC #2873

Storm water runoff from former equipment, pipe and metal storage area near tracks.

Outfall #013 - Fertilizer Manufacturer - SIC #2873

Storm water runoff from abandoned ammonia terminal.

Outfall #014 - Quarrying - Sandstone - SIC 1499

Storm water runoff

Outfall #015 - Fertilizer Manufacturer - SIC #2873

Storm water runoff from former Low Density Ammonium Nitrate Plant (LDAN) and High Density Ammonium Nitrate Plant (HDAN).

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 3 of 7	
					PERMIT NUMBER MO-0000817	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfalls #008, #011, and #015 - Stormwater (Note 1)</u>						
Flow	MGD	*		*	once/quarter***	24 hr. estimate
pH - Units	SU	**		**	once/quarter***	grab
Ammonia as N	mg/L	20		10	once/quarter***	grab
Nitrate as N	mg/L	20		15	once/quarter***	grab
Nitrite as N	mg/L	*		*	once/quarter***	grab
Settleable Solids	mL/L/hr	1.5		1.0	once/quarter***	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>July 28, 2004</u> .						
<u>Outfall #014 - Sandstone Quarrying (Notes 2 & 3)</u> Non-storm Water Discharges (Note 4)						
Flow	gpd	*		*	once/quarter***	24 hr. estimate
Total Suspended Solids	mg/L	70		70	once/quarter***	grab
Oil and Grease	mg/L	15		10	once/quarter***	grab
pH - units	SU	**		**	once/quarter***	grab
<u>Outfall #014 - Storm Water Discharges (Note 5)</u>						
Flow	gpd	*		*	once/year****	24 hr. estimate
Settleable Solids	mL/L/hr	1.5		1.0	once/year****	grab
Oil and Grease	mg/L	15		10	once/year****	grab
pH - units	SU	**		**	once/year****	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>ANNUALLY</u> ; THE FIRST REPORT IS DUE <u>October 28, 2004</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
- *** Sample once per quarter in the months of March, June, September, and December.
- **** Sample once per year in the month of April.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

Note 1 - Effluent limitations and monitoring requirements for these and other storm water outfalls may be modified/eliminated based on review of discharge monitoring reports and regulations or guidance on storm water from EPA or Missouri Department of Natural Resources. Outfalls #008, #011, and #015 are representative of Outfalls #007, #010, and #012. Monitoring for Outfalls #009 and 013 have been eliminated.

Note 2 - These limits will not be enforced until we have received written notice from the permittee indicating that activities will be initiated. Written notification shall be received by the department thirty days prior to start up. Permittee is required to report no discharge on the discharge monitoring reports for this outfall until that time.

Note 3 - Flow should be measured for the same day as sample is taken.

Note 4 - Non-storm water discharges are those that result from something other than precipitation, such as water pumped from underground mines, and water used to wash equipment and vehicles. Monitoring requirements and effluent limitations for non-storm water discharges are stricter than those for storm water discharges due to the tendency for higher concentrations of pollutants and caustic pH levels in non-storm water discharges. The higher concentrations of pollutants and high pH levels increase the potential for pollution of waters of the state. The permit also requires that process wastewater, such as vehicle and equipment wash water, receive treatment prior to discharge. Treatment of such wastewater is required to reduce or remove the pollutants, which can cause pollution to waters of the state.

Note 5 - Effluent limits for settleable solids are only effective for discharges resulting from rainfalls in amounts less than a 25-year, 24-hour event.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

2. All outfalls must be clearly marked in the field.
3. Report as no-discharge when a discharge does not occur during the report period.

C. SPECIAL CONDITIONS (continued)

4. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

5. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:

- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
- (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
- (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
- (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
- (e) There shall be no significant human health hazard from incidental contact with the water;
- (f) There shall be no acute toxicity to livestock or wildlife watering;
- (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
- (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

6. Industrial Sludge Disposal

- (a) Disposal of industrial sludge is not authorized by this permit. Industrial sludge shall be disposed at a permitted solid waste disposal facility in accordance with 10 CSR 80; or if the sludge is determined to be hazardous waste, shall be disposed at a permitted hazardous waste disposal facility pursuant to 10 CSR 25.
- (b) Non-hazardous sludge that is disposed on site or that is exempted under 10 CSR 80 must obtain applicable permits under 10 CSR 20-6.015 and 10 CSR 20-6.200.
- (c) Each effluent monitoring report shall also specify the date any sludge is removed from the facility, who removed the sludge and the number of gallons or quantity of sludge removed. The final disposal location shall be reported, including the name of the disposal facility, the solid waste or hazardous waste disposal permit number, and date of permit issuance.
- (d) This permit may (after due process) be modified, or alternatively revoked and reissued, to comply with any applicable sludge disposal standard or limitation issued or approved under Section 405(d) of the Clean Water Act.

D. OTHER REQUIREMENTS

1. Applicability

These conditions apply to all permittees who use, manufacture, store, handle or discharge any pollutant listed as toxic under Section 307(a) (1) of the Clean Water Act or any pollutant listed as hazardous under Section 311 of the Act and who have ancillary manufacturing operations which could result in significant amounts of these pollutants reaching waters of the state. These operations include material storage areas; plant site runoff; in-plant transfer, process and material handling areas; loading and unloading operations, and sludge and waste disposal areas.

2. BMP Plan

The permittee shall develop and implement a Best Management Practices (BMP) plan which prevents, or minimizes the potential for, the release of toxic substances from ancillary activities to the waters of the United States through plant site runoff; spillage or leaks; sludge or waste disposal; or drainage from raw material storage.

3. Implementation

The BMP plan shall be developed within six months of the permit issuance and shall be implemented as soon as practicable but not later than one year after the effective date of the permit, unless a later date is specified by the Director.

4. General Requirements

The BMP plan shall:

- (a) Be documented in narrative form, and shall include any necessary plot plans, drawings or maps.
- (b) Establish specific objectives for the control of toxic and hazardous pollutants.
 - (1) Each facility component or system shall be examined for its potential for causing a release of significant amounts of toxic or hazardous pollutants to waters of the United States due to equipment failure, improper operation, natural phenomena such as rain or snowfall, etc.
 - (2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural condition (e.g., precipitation), or other circumstances to result in significant amounts of toxic or hazardous pollutants reaching surface waters, the plan should include a predation for the direction, rate of flow and total quantity of toxic or hazardous pollutants which could be discharged from the facility as a result of each condition or circumstance.
- (c) Establish specific best management practices to meet the objectives identified under Paragraph 4b of this section, addressing each component or system capable of causing a release of significant amounts of toxic or hazardous pollutants to the waters of the United States.
- (d) Include any special conditions established in Section B of this permit.
- (e) Be reviewed by plant engineering staff and the plant manager

5. Hazardous Waste Management

The permittee shall assure the proper management of solid and hazardous waste in accordance with regulations promulgated under the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976 (RCRA) (40 U.S.C. 6901 et seq). Management practices required under RCRA regulations shall be referenced in the BMP plan.

D. OTHER REQUIREMENTS (continued)

6. Specific Requirements

The plan shall be consistent with the general guidance contained in the publication entitled "NPDES Best Management Practices Guidance Document" and shall include the following baseline BMP's as a minimum:

- a. BMP Committee
- b. Reporting of BMP Incidents
- c. Risk Identification and Assessment
- d. Employee Training
- e. Inspections and Records
- f. Preventive Maintenance
- g. Good Housekeeping
- h. Materials Compatibility
- i. Security
- j. Rail car and truck clean out procedures.

7. SPCC Plans

The BMP plan may reflect requirements for Spill Prevention Control and Countermeasure (SPCC) plans under Section 31 of the Act and 40 CFR Part 1510, and may incorporate any part of such plans into the BMP plan by reference.

8. Documentation

The permittee shall maintain a description of the BMP plan at the facility and shall make the plan available to the Director upon request.

9. BMP Plan Modification

The permittee shall amend the BMP plan whenever there is a change in the facility or change in the operation of the facility which materially increases the potential for the ancillary activities to result in a discharge of significant amounts of hazardous or toxic pollutants.

10. Modification for Ineffectiveness

If the BMP plan proves to be ineffective in achieving the general objective of preventing the release of significant amounts of toxic or hazardous pollutants to surface waters and the specific objectives and requirements under Paragraphs 4b and 4c, the permit and/or the BMP Plan shall be subject to modification to incorporate revised BMP requirements.